

## NORSOK M-710 Ed. 3 Declaration

A leading independent Test House has assessed with Test Report C6406-2 that:

### PTFE G412

is in compliance to the **NORSOK M-710 Ed. 3** -Sept. 2014 – “Qualification of non-metallic sealing materials and manufacturers - Polymers” -Sour Aging Test for both Volume swell and Tensile properties in following conditions:

#### Exposure conditions

| Test temperature (°C) | Sampling intervals (days) |
|-----------------------|---------------------------|
| 200                   | 2*, 7, 14, 28, 42, 56     |
| 210                   |                           |
| 220                   |                           |

#### Fluid phase distribution

| Volume (%) | Composition                                                 |
|------------|-------------------------------------------------------------|
| 30         | 10% H <sub>2</sub> S 5% CO <sub>2</sub> 85% CH <sub>4</sub> |
| 10         | Distilled water (conductivity < 5 µS)                       |
| 60         | 70/20/10 vol% heptane/cyclohexane/toluene                   |



**Marco Nocera**

**Quality & Customer Care Mgr.**

Castelli Calepio, 18<sup>th</sup> July 2025

#### **Note**

**NORSOK M-710** is a standard for thermoplastics in environments simulating those found in oil & gas production. The standard is widely used by the Oil and Gas industry in screening and selection of polymeric materials for oilfield applications, including sour (hydrogen sulfide) service.

Exposures were performed in the NORSOK standard sour service test fluid: this contains a mixture of liquid hydrocarbons with methane, carbon dioxide and hydrogen sulfide in the gas phase. A range of temperatures up to 220°C were used. NORSOK M710 provides a standardised test method for comparing material performance in conditions simulating a sour oilfield environment.

It does not guarantee suitability for any particular service application. Users should take expert advice when choosing materials.



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(Società Soggetta all'attività di direzione e coordinamento  
ex art. 2497 bis C.C. da parte di Mazza Holding S.p.A.)

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